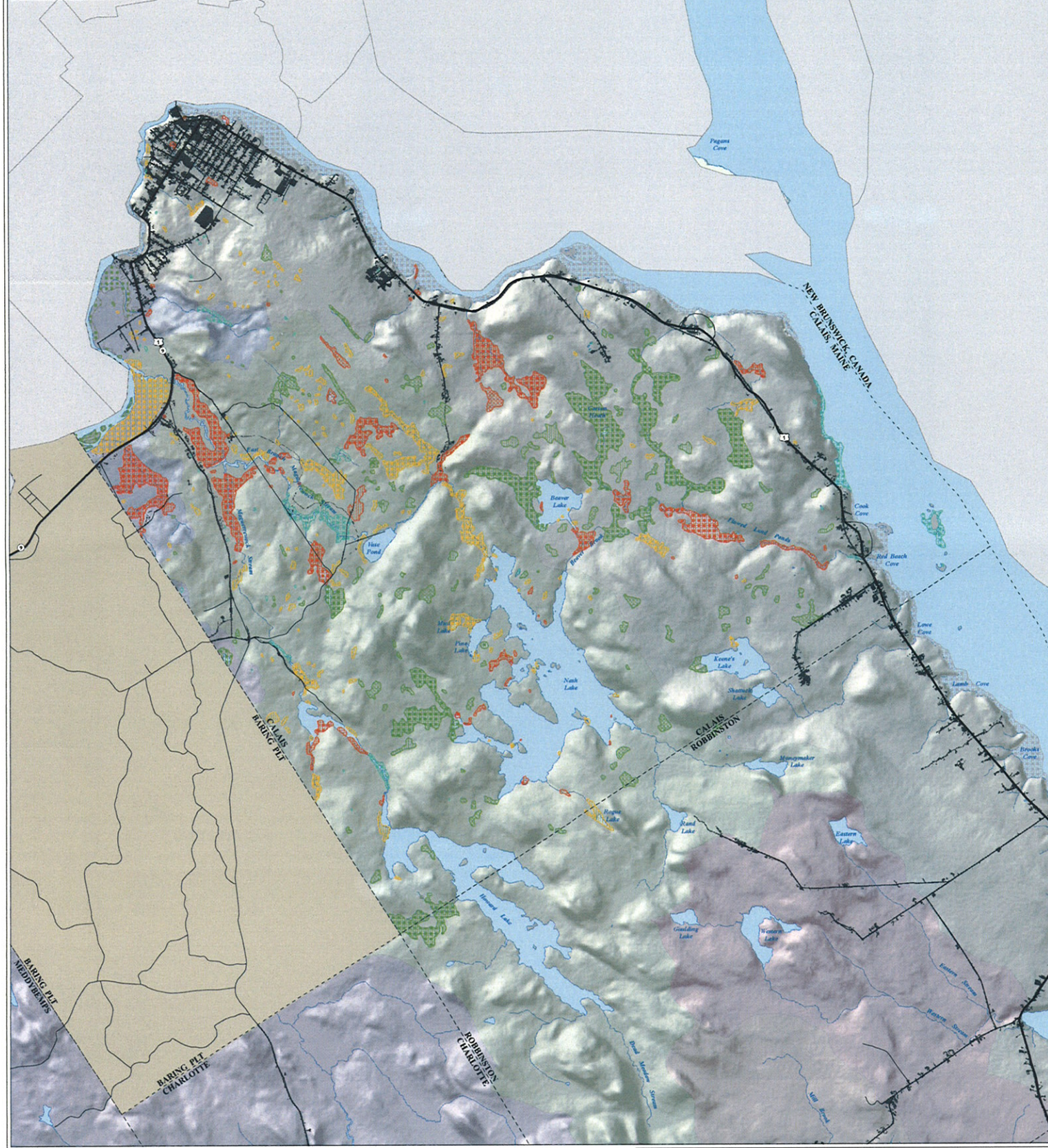


Beginning with HABITAT  
An Approach to Conserving Maine's Natural Space for Plants, Animals, and People

Supplementary Map 7  
Wetlands Characterization  
Town of Calais

This map is non-regulatory and is intended for planning purposes only.



**LEGEND**

This map depicts all wetlands shown on National Wetland Inventory (NWI) maps, but categorized them based on a subset of wetland functions. This map and its depiction of wetland features neither substitute for nor eliminate the need to perform on-the-ground wetland delineation and functional assessment. In no way shall use of this map diminish or alter the regulatory protection that all wetlands are accorded under applicable State and Federal laws.

For more information about wetlands characterization, contact Elizabeth Hertz at the Maine State Planning Office (207-287-8051, [elizabeth.hertz@maine.gov](mailto:elizabeth.hertz@maine.gov)).

The State Planning Office (SPO) Wetlands Characterization is a planning tool intended to help identify likely wetland functions associated with significant wetland resources and adjacent uplands. Using GIS analysis, this map provides basic information regarding what ecological services various wetlands are likely to provide. These ecological services, each of which has associated economic benefits, include: Floodflow control, sediment retention, fish habitat, and/or shellfish habitat. There are other important wetland functions and values not depicted in this map. Refer to [www.maine.gov/deplab/gis/ocdand/level2.htm](http://www.maine.gov/deplab/gis/ocdand/level2.htm) for additional information regarding wetland functions and values. Forested wetlands and small wetlands such as vernal pools are known to be underrepresented in the National Wetlands Inventory (NWI) data used to create this map. The model developed to estimate the functions provided by each wetland could not capture every wetland function or value. Therefore, it is important to use local knowledge and other data sources when evaluating wetlands, and each wetland should be considered relative to the whole landscape/watershed when assessing wetland resources at a local level.

Visit the Maine Wetlands Characterization internet mapping application at: <http://megsims.state.me.us/web/guest/spaceviewer.htm>

**Legend:**

- Organized Township Boundary
- Developed-Imperious surfaces including buildings and roads
- Unorganized Township (Beginning with Habitat does not provide data for unorganized townships)
- Streams and Brooks
- Ocean, Lakes, Ponds, and Rivers

**Wetland Functions: fill pattern**

Some wetlands may have more than one function (fill pattern)

**RUNOFF / FLOODFLOW ALTERATION**  
Wetlands provide natural stormwater control capabilities. As natural basins in the landscape, wetlands are able to receive, detain, and slowly release stormwater runoff. Wetland shelves along stream banks naturally regulate flood waters by providing an area for smaller stream flows to expand and slow, thereby protecting downstream properties. This map assigns Runoff/Floodflow Alteration Functions to wetlands that are (a) contained in a known flood zone, (b) associated with a surfacewater course or waterbody, and (c) with slope < 3%.

**AND/OR**

**EROSION CONTROL / SEDIMENT RETENTION**  
Wetlands act as natural sponges that can hold water, allowing suspended particles such as sediment to settle out. The dense vegetation in most wetlands helps to stabilize soil and slow water flows, thereby reducing scouring and bank erosion. This map assigns Erosion Control / Sediment Retention Functions to wetlands with (a) slope < 3%; (b) emergent vegetation; and (c) close proximity to a river, stream, or lake.

**AND/OR**

**FISH HABITAT**  
Wetlands with documented fish populations, including wetlands adjacent to a river, stream, or lake.

**AND/OR**

**SHELLFISH HABITAT**  
Inland wetlands and streams can directly affect the status of coastal shellfish harvest areas. Fecal coliform bacteria and waterborne nutrients resulting from land use changes away from the coast can travel via surface water to harvestable flats. One failed septic system near a stream could slow a mudflat several miles away. Excessive nutrients can reduce water clarity and stimulate epiphytic growth that degrades eelgrass meadows. Conservation of freshwater wetlands and stream buffers in coastal watersheds is a key component in marine resource conservation. This map assigns a Shellfish Habitat function to wetlands within 0.5 miles of (a) identified shellfish habitat, (b) identified shellfish closure areas, or (c) mapped eelgrass beds OR palustrine wetlands directly connected by a stream of < 0.5 mile in length to (a) identified shellfish habitat, (b) identified shellfish closure areas, or (c) mapped eelgrass beds.

**PLANT/ANIMAL HABITAT**  
Nearly all visible species, and many of Maine's plant species, depend on wetlands during some part of their life cycle. For the purposes of this map, wetlands containing open water or emergent vegetation, 3 or more wetland vegetation classes (see below), and within 1/4 mile of a known rare, threatened, or endangered plant or animal occurrence, within 1/4 mile of a mapped significant or essential habitat, or within 1/4 mile of a rare or exemplary natural community have been assigned this function. Rare element occurrences and mapped habitats can be found on Map 2 High Value Plant & Animal Habitats.

**OTHER FUNCTIONS**

**CULTURAL/EDUCATIONAL** - Wetlands within 1/4 mile of a boat ramp or school have been assigned this value as these wetlands are likely candidates for use as outdoor classrooms, or similar social benefits. Wetlands rated for other functions listed above may also demonstrate cultural/educational values although not expressly shown.

**OR**

**NO DOCUMENTED FUNCTION** - The basis of this characterization is high altitude aerial photos. Photo quality often limits the information that can be interpreted from small wetland features, or those with dense canopy cover. Although not assigned a function under this study, ground surveys may reveal that these wetlands have multiple functions and values.

**Wetland Class: fill color**

- Aquatic Bed (floating or submerged aquatic vegetation), Open Water
- Emergent (floating or submerged aquatic vegetation), Open Water
- Emergent/Forested Mix (woody vegetation > 20 ft tall), Emergent/Shrub-Scrub Mix (woody vegetation < 20 ft tall)
- Forested, Forested/Shrub-scrub
- Shrub-scrub
- Other (rocky shore, streambed, unconsolidated shore, reef, rocky bottom)

**Data Sources**

**DATA SOURCE INFORMATION**  
(Data collected for this map can be downloaded from Maine Office of GIS)

**TOWNSHIP BOUNDARIES**  
Maine Office of GIS (2005); metwp24

**ROADS**  
Maine Office of GIS, Maine Department of Transportation (2005); mdoctwp

**HYDROLOGY**  
Maine Office of GIS, U.S. Geological Survey (2004); hyd24

**DEVELOPED**  
Maine Office of GIS, Maine Department of Environmental Protection (contact agency for this multiple agency collaboration) (2005); impov

**NATIONAL WETLANDS INVENTORY (NWI)**  
Maine Office of GIS (1998); nwi

**DRAINAGE DIVIDES**  
Maine Office of GIS (1994); mdrdvd

**DATA SOURCE CONTACT INFORMATION**  
Maine Office of GIS - <http://apollis.gis.state.me.us/catalog>  
Maine Department of Transportation - <http://www.maine.gov/mdot/>  
Maine State Planning Office - <http://www.maine.gov/spo/>  
Maine Geological Survey - <http://www.maine.gov/doc/rsmc/mgs/mgs.htm>

**DIGITAL DATA REQUEST**  
To request digital data for a town or organization, visit our website, [http://www.beginningwithhabitat.org/the\\_maps/gis\\_data\\_request.html](http://www.beginningwithhabitat.org/the_maps/gis_data_request.html)

**Map Prepared by Maine Department of Inland Fisheries & Wildlife**  
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